

## ABSTRACT OF THE DISCLOSURE

A method of controlling the amplification of a high-frequency signal, in particular an intermittent signal, in which a radio-frequency signal to be amplified is passed in a control loop to a variable-gain amplifier, the gain being controlled by  
5 an amplifier control signal, part of the amplified radio-frequency signal is coupled out via a directional coupler and passed to a power detector, the output voltage of which is passed for difference-forming with a control signal to inputs of a comparator circuit, the output voltage of which, as a gain control signal, is readjusted to increase the power output level, the readjustment continuing until the  
10 output voltage of the detector and the voltage of the control signal at the inputs of the comparator circuit compensate for one another.